

Title (en)
LAMP

Title (de)
LAMPE

Title (fr)
LAMPE

Publication
EP 1461979 A1 20040929 (DE)

Application
EP 03702308 A 20030103

Priority
• DE 0300007 W 20030103
• DE 10200304 A 20020107

Abstract (en)
[origin: WO03059012A1] A lamp (10) is disclosed with a single- or double-sided socket, whereby a bulb element (11) is arranged on the at least one socket (12), which surrounds a volume of space (14) and said lamp is provided with at least one LED element (13). According to the invention, an irradiation of the LED light into the bulb element occurs and, as a result of reflection, in particular total reflection, on the defining surfaces (16, 17) of the bulb element a transmission of the LED light within the bulb element occurs.

IPC 1-7
H05B 33/00; **H05B 35/00**; **F21V 5/00**; **H01J 61/32**; **H01J 61/38**

IPC 8 full level
H01J 61/30 (2006.01); **F21K 9/232** (2016.01); **F21K 9/61** (2016.01); **F21K 99/00** (2010.01); **F21V 3/04** (2006.01); **F21V 8/00** (2006.01); **H01J 61/32** (2006.01); **H01J 61/33** (2006.01); **H01J 61/38** (2006.01); **H05B 35/00** (2006.01); **F21Y 113/20** (2016.01); **F21Y 115/10** (2016.01)

CPC (source: EP US)
F21K 9/232 (2016.07 - EP US); **F21K 9/61** (2016.07 - EP US); **F21K 9/66** (2016.07 - EP); **F21V 3/04** (2013.01 - EP US); **G02B 6/0033** (2013.01 - EP US); **G02B 6/0073** (2013.01 - EP US); **H01J 61/327** (2013.01 - EP US); **H01J 61/38** (2013.01 - EP US); **H05B 35/00** (2013.01 - EP US); **F21Y 2113/20** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)
See references of WO 03059012A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)
WO 03059012 A1 20030717; AU 2003205508 A1 20030724; CN 1640199 A 20050713; CN 1640199 B 20100908; DE 50310999 D1 20090212; EP 1461979 A1 20040929; EP 1461979 B1 20081231; JP 2005514752 A 20050519; JP 4154334 B2 20080924; US 2005105302 A1 20050519; US 7160012 B2 20070109

DOCDB simple family (application)
DE 0300007 W 20030103; AU 2003205508 A 20030103; CN 03805444 A 20030103; DE 50310999 T 20030103; EP 03702308 A 20030103; JP 2003559193 A 20030103; US 50082804 A 20040707